Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference F0301PCT	FOR FURTHER ACT	TION	See Form PCT/IPEA/416		
International application No. PCT/JP2003/004705	International filing date 14 April 2003 (Priority date (day/month/year)		
International Patent Classification (IPC) or r A61K 7/06	national classification and	IPC			
Applicant	SHIN-ETSU CHEM	ICAL CO., LTD).		
This report is the international preli Authority under Article 35 and tran	iminary examination repor smitted to the applicant ac	t, established by this cording to Article 3	s International Preliminary Examining 6.		
2. This REPORT consists of a total of 3 sheets, including this cover sheet.					
3. This report is also accompanied by					
Į.	d to the International Bure	eau) a total of 3	sheets, as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating to the following items:					
Box No. I Basis of the report					
Box No. II Priority					
Box No. III Non-establi	The state of the s				
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
Date of submission of the demand		Date of completion	n of this report		
12 November 2004 (12.11.2004)		03	3 March 2005 (03.03.2005)		
Name and mailing address of the IPEA/I	P	Authorized office	•		
Facsimile No.		Telephone No.			

International application No.

PCT/JP2003/004705

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No.	I	Basis of the report							
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 									
	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:								
	international search (under Rules 12.3 and 23.1(b))								
		publication of the international application (under Rule 12.4)							
		international preliminary examination (under Rules 55.2 and/or 55.3)							
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): The international application as originally filed/furnished									
N N		escription:							
	page	1.0.4 6.00	, as originally filed/furnished						
1	page		25 February 2005 (25.02.2005)						
i	page	received by this Authority on							
	the c	aims;							
الحا	page	0.04	, as originally filed/furnished						
1	page		ether with any statement) under Article 19						
}	page		25 February 2005 (25.02.2005)						
1	page	* received by this Authority on							
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	0 500	uence listing and/or any related table(s) - see Sunnlemental Box Relating to Se	cauence Listing.						
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.								
3	The	amendments have resulted in the cancellation of:							
		the description, pages							
	the claims, Nos.								
	the drawings, sheets/figs								
	the sequence listing (specify):								
1	any table(s) related to sequence listing (specify):								
This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages									
		the claims, Nos.							
1		the drawings, sheets/figs							
1		the sequence listing (specify):							
1		any table(s) related to sequence listing (specify):							
}									
* If item 4 applies, some or all of those sheets may be marked "superseded."									

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/04705

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	1-26	YES		
	Claims		NO		
Inventive step (IS)	Claims	1-26	YES		
	Claims		NO		
Industrial applicability (IA)	Claims	1-26	YES		
	Claims		NO		

2. Citations and explanations (Rule 70.7)

The ISR cites the following documents 1-4.

Document 1: EP, 1213316, A2 (Shin-Etsu Chemical Co., Ltd.)

Document 2: EP, 1065234, A2 (Shin-Etsu Chemical Co., Ltd.) Document 3: US, 6290942, B1 (Shin-Etsu Chemical Co., Ltd.)

Document 4: WO. 98-20833, A2 (L'Oreal)

The general formula (1) representing the polyhydric alcohol-modified silicones to be mixed in hair cosmetics of document 1 are similar to the organopolysiloxanes of formula (1) of the present application in chemical structural (see the claims and Examples 9, 20 and 21 of document 1).

However, in the organopolysiloxanes of document 1, an OH group or an OR group is bonded to a Si atom through a carbon atom, while in the organopolysiloxanes of the present application as amended, the OH group or OR group of \mathbb{R}^2 is bonded to a Si atom directly without the intervention of a carbon atom or at least through a silicon atom. So, in this regard, the chemical structure of document 1 is different from that of the present application, and the bonding method of the said OH group or OR group of \mathbb{R}^2 to the Si atom in the present application cannot be derived from the disclosure of document 1.

Document 2 discloses the organopolysiloxanes of the formula (1) of the present application, but the compounds are used as treating agents for cosmetic powders, and document 2 neither describes nor suggests that they are used for hair cosmetics.

Documents 3 and 4 respectively disclose silicone compounds used as hair treating agents, but their structure is different from the structure of the formula (1) of the present application. Furthermore, documents 3 and 4 do not include any description suggesting the derivation of the said chemical structure.

Therefore, the subject matters of claims 1-26 of the present application appear to be novel and to involve an inventive step in view of documents 1-4.